CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.15/KMR/CSR-04/001b/CEMENT/2016-17

Date: 02.04.2016

TEST REPORT ON CEMENT

*** CUSTOMER**	:	**Asst. Executive Engineer**, T. Dasarahalli Sub Division, BBMP, Bangalore.
***AGENCY**	:	**Mr. K. Madhavareddy,** No.900, Bagalagunte, Muneshwara Layout, Bangalore.
***NAME OF THE WORK**	:	Improvements & Construction of cc road coconut garden roads and cross roads in Dasarahalli Ward No.15, BBMP, Bangalore.
***REFERENCE**	:	BBMP/DZ/AEE/TDSD/PR/2016-17 Dated: 01.04.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	01.04.2016
PERIOD OF TESTING	:	01.04.2016 to 02.04.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Quality Manager

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Job No.: CTCE/BBMP/W.No.15/KMR/CSR-04/001b/SAND-Gradation/2016-17 : 02.04.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. K. Madhavareddy,**
No.900, Bagalagunte, Muneshwara Layout, Bangalore.

*** Name of Work** : Improvements & Construction of cc road coconut garden roads and cross roads in Dasarahalli Ward No.15, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2016-17 Dated: 01.04.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 01.04.2016

Date of Testing : 02.04.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.80	90-100	90-100	90-100	95-100
2.36	78.30	60-95	75-100	85-100	95-100
1.18	58.80	30-70	55-90	75-100	90-100
600 Micron	29.80	15-34	35-59	60-79	80-100
300 Micron	17.30	5-20	8-30	12-40	15-50
150 Micron	4.80	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.15/KMR/CSR-04/001b/AGG/GR/2016-17 : 02.04.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. K. Madhavareddy,**
No.900, Bagalagunte, Muneshwara Layout, Bangalore.

*** Name of Work** : Improvements & Construction of cc road coconut garden roads and cross roads in Dasarahalli Ward No.15, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2016-17 Dated: 01.04.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 01.04.2016

Date of Testing : 02.04.2016

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.00	95-100	85-100
20	38.00	30-70	0-20
10	18.00	10-35	0-5
4.75	3.50	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.15/KMR /STEEL/2015-16 02.04.2016

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer**, T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. K. Madhavareddy,** No.900, Bagalagunte, Muneshwara Layout, Bangalore.
Name of the Work	:	Improvements & Construction of cc road coconut garden roads and cross roads in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference	:	BBMP/DZ/AEE/TDSD/PR/2016-17 Dated: 01.04.2016
Date of Test	:	02.04.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	8	0.40	510	552	13.05	O.K	O.K

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Job No.: CTCE/BBMP/W.No.15/KMR /STEEL/2015-16 02.04.2016

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer**, T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. K. Madhavareddy,** No.900, Bagalagunte, Muneshwara Layout, Bangalore.
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Date of Test	:	02.04.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	513	556	13.20	O.K	O.K

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Job No.: CTCE/BBMP/W.No.15/KMR/CSR-04/001b/CUBE/2016-17 30.04.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. K. Madhavareddy,**
No.900, Bagalagunte, Muneshwara Layout, Bangalore.

*** Name of the work** : Improvements & Construction of cc road coconut garden roads and cross roads in Dasarahalli Ward No.15, BBMP, Bangalore.

*** Reference** : BBMP/DZ/AEE/TDSD/PR/2016-17 Dated: 01.04.2016

*** Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{30}

Compressive Strength as on : 28th day

Sample Received on : 30.04.2016

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.04.2016	30.04.2016	8.145	712.3	31.66
2	02.04.2016	30.04.2016	8.235	720.3	32.01
3	02.04.2016	30.04.2016	8.305	722.6	32.12

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* Reference	: BBMP/DZ/AEE/TDSD/PR/2016-17 Dated: 01.04.2016
* Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day
Sample Received on	: 30.04.2016

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.04.2016	30.04.2016	8.099	700.5	31.13
2	02.04.2016	30.04.2016	8.125	715.5	31.80
3	02.04.2016	30.04.2016	8.220	720.6	32.03

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Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*** Grade of Concrete**	: M_{30}
Compressive Strength as on	: 28th day
Sample Received on	: 30.04.2016

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.04.2016	30.04.2016	8.425	740.6	32.92
2	02.04.2016	30.04.2016	8.366	725.6	32.25
3	02.04.2016	30.04.2016	8.215	700.6	31.14

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